

FILE 'CAPLUS' ENTERED AT 12:26:43 ON 27 APR 2011
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2011 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 27 Apr 2011 VOL 154 ISS 18
FILE LAST UPDATED: 26 Apr 2011 (20110426/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2011

Caplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> e us20050175857/pn

E1	2	US20050175855/PN
E2	1	US20050175856/PN
E3	1 -->	US20050175857/PN
E4	1	US20050175858/PN
E5	1	US20050175859/PN
E6	1	US20050175860/PN
E7	1	US20050175861/PN
E8	1	US20050175862/PN
E9	1	US20050175863/PN
E10	1	US20050175864/PN
E11	1	US20050175865/PN
E12	1	US20050175866/PN

=> s e3

L1 1 US20050175857/PN

=> d all

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2011 ACS on STN
AN 2005:735143 CAPLUS
DN 143:202688
ED Entered STN: 12 Aug 2005
TI Novel blue emitters for use in organic electroluminescence devices
IN Coggan, Jennifer A.; Hu, Nan-Xing; Aziz, Hany
PA Xerox Corporation, USA
SO U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DT Patent
LA English

CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050175857	A1	20050811	US 2004-774577	20040209 <--
	JP 2005222948	A	20050818	JP 2005-28449	20050204
	JP 4395084	B2	20100106		
	EP 1580250	A2	20050928	EP 2005-250649	20050204
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
	JP 2010021561	A	20100128	JP 2009-206785	20090908
PRAI	US 2004-774577	A	20040209		
	JP 2005-28449	A3	20050204		

CLASS

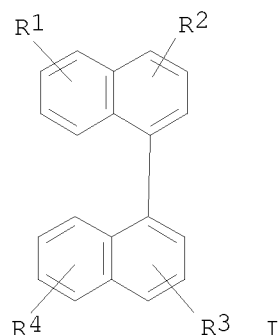
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 20050175857	INCL	428690000; 428917000; 313504000; 313506000; 257103000
	IPCI	H05B0033-14 [ICM,7]
	IPCR	H01L0051-50 [I,C*]; H01L0051-50 [I,A]; C07C0015-00 [I,C*]; C07C0015-24 [I,A]; C07C0025-00 [I,C*]; C07C0025-22 [I,A]; C07C0043-00 [I,C*]; C07C0043-20 [I,A]; C07F0007-00 [I,C*]; C07F0007-08 [I,A]; C09K0011-06 [I,C*]; C09K0011-06 [I,A]
	NCL	428/690.000; 257/103.000; 313/504.000; 313/506.000; 428/917.000
	ECLA	C09K011/06; H01L051/00M6D12; M09K211:10B2; M09K211:10B6; M09K211:10D4D; M09K211:10D4H; M09K211:10B4; M09K211:10D4L; T01L051:00M6H8; T01L051:00M12D4
JP 2005222948	IPCI	H01L0051-50 [I,A]; C07C0015-24 [I,A]; C07C0015-00 [I,C*]; C09K0011-06 [I,A]
	IPCR	C09K0011-06 [I,A]; C09K0011-06 [I,C*]; H01L0051-50 [I,C]; H01L0051-50 [I,A]; C07C0015-00 [I,C]; C07C0015-24 [I,A]; C07C0025-00 [I,C*]; C07C0025-22 [I,A]; C07C0043-00 [I,C*]; C07C0043-20 [I,A]; C07F0007-00 [I,C*]; C07F0007-08 [I,A]
	ECLA	C09K011/06; H01L051/00M6D12; M09K211:10B2; M09K211:10B6; M09K211:10D4D; M09K211:10D4H; M09K211:10B4; M09K211:10D4L; T01L051:00M6H8; T01L051:00M12D4
	FTERM	3K007/AB04; 3K007/AB06; 3K007/AB14; 3K007/AB18; 3K007/DB03; 3K007/FA01; 4H006/AA03; 4H006/AB92; 4H006/EA23; 4H006/GP03; 4H049/VN01; 4H049/VP02; 4H049/VQ08; 4H049/VR24; 4H049/VU29
EP 1580250	IPCI	C09K0011-06 [ICM,7]
	IPCR	H01L0051-50 [I,C*]; H01L0051-50 [I,A]; C07C0015-00 [I,C*]; C07C0015-24 [I,A]; C07C0025-00 [I,C*]; C07C0025-22 [I,A]; C07C0043-00 [I,C*]; C07C0043-20 [I,A]; C07F0007-00 [I,C*]; C07F0007-08 [I,A]; C09K0011-06 [I,C*]; C09K0011-06 [I,A]
	ECLA	C09K011/06; H01L051/00M6D12; M09K211:10B2; M09K211:10B6; M09K211:10D4D; M09K211:10D4H; M09K211:10B4; M09K211:10D4L; T01L051:00M6H8; T01L051:00M12D4
JP 2010021561	IPCI	H01L0051-50 [I,A]; C09K0011-06 [I,A]; C07C0025-22 [N,A]; C07C0025-00 [N,C*]; C07C0015-58 [N,A]; C07C0015-00 [N,C*]; C07F0007-08 [N,A]; C07F0007-00 [N,C*]
	IPCR	H01L0051-50 [I,C]; H01L0051-50 [I,A]; C07C0015-00

[I,C*]; C07C0015-24 [I,A]; C07C0015-58 [N,A];
C07C0025-00 [I,C*]; C07C0025-22 [I,A]; C07C0043-00
[I,C*]; C07C0043-20 [I,A]; C07F0007-00 [I,C*];
C07F0007-08 [I,A]; C09K0011-06 [I,C]; C09K0011-06 [I,A]
ECLA C09K011/06; H01L051/00M6D12; M09K211:10B2;
M09K211:10B6; M09K211:10D4D; M09K211:10D4H;
M09K211:10B4; M09K211:10D4L; T01L051:00M6H8;
T01L051:00M12D4
FTERM 3K107/AA01; 3K107/BB01; 3K107/CC04; 3K107/CC07;
3K107/CC12; 3K107/CC21; 3K107/CC24; 3K107/DD53;
3K107/DD59; 3K107/DD66; 3K107/DD68; 3K107/DD71;
3K107/DD74; 3K107/DD78; 4H006/AA03; 4H006/AB91;
4H049/VN01; 4H049/VP02; 4H049/VQ08; 4H049/VR24;
4H049/VU25

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 143:202688

GI



AB The invention refers to an electroluminescent (EL) is provided comprising an anode, an organic electroluminescent element, and a cathode wherein the electroluminescent element contains, for example, a fluorescent 1,1'-binaphthyl derivative component I [R1-4 = H, or C1-25 alkyl, C3-15 alicyclic alkyl, (un)C 6-30 substituted aryl, C atoms from 4 to 24 necessary to complete a fused aromatic ring of naphthalene, anthracene, perylene and the like, C3-15 alicyclic alkyl, Si which may be substituted with a tri-Me, diphenylmethyl, tri-Ph group and the like, C5-24 (un)substituted heteroaryl, C atoms necessary to complete a fused heteroarom. ring of furyl, thienyl, pyridyl, quinolinyl and other heterocyclic systems, C1-25 alkoxy, amino, alkyl amino or aryl amino, halo, cyano, and the like].

ST electroluminescence device binaphthyl fluorescent material

IT Electroluminescent devices

Fluorescent substances

(novel blue emitters for use in organic electroluminescence devices)

IT 676553-38-1P 861909-12-8P, 2,1':4',1'':4'',2'''-Quaternaphthalene

RL: DEV (Device component use); SPN (Synthetic preparation); PREP

(Preparation); USES (Uses)

(novel blue emitters for use in organic electroluminescence devices)

IT 76-86-8, Triphenylsilyl chloride 604-53-5, 1,1'-Binaphthalene

7726-95-6, Bromine, reactions 32316-92-0, 2-Naphthalene boronic acid

123324-71-0, 4-tert-Butylphenyl boronic acid

RL: RCT (Reactant); RACT (Reactant or reagent)

(novel blue emitters for use in organic electroluminescence devices)

IT 49610-35-7P, 4,4'-Dibromo-1,1'-binaphthyl

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
 (novel blue emitters for use in organic electroluminescence devices)
 IT 861909-11-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (novel blue emitters for use in organic electroluminescence devices)
 OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
 UPOS.G Date last citing reference entered STN: 03 Aug 2010
 OS.G CAPLUS 2006:1225555; 2005:591930; 2007:701455; 2009:53952; 2007:1300762;
 2007:672753; 2006:403965; 2006:101029

=> delete select y
 ALL E# DEFINITIONS DELETED

=> sel ll rn 1-
 E1 THROUGH E9 ASSIGNED

=> d sel

E1	1	123324-71-0/BI
E2	1	32316-92-0/BI
E3	1	49610-35-7/BI
E4	1	604-53-5/BI
E5	1	676553-38-1/BI
E6	1	76-86-8/BI
E7	1	7726-95-6/BI
E8	1	861909-11-7/BI
E9	1	861909-12-8/BI

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.58	6.81
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.87	-0.87

FILE 'REGISTRY' ENTERED AT 12:27:33 ON 27 APR 2011
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2011 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 25 APR 2011 HIGHEST RN 1285819-54-6
 DICTIONARY FILE UPDATES: 25 APR 2011 HIGHEST RN 1285819-54-6

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

TSCA INFORMATION NOW CURRENT THROUGH January 14, 2011.

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information

on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> s e1-e9

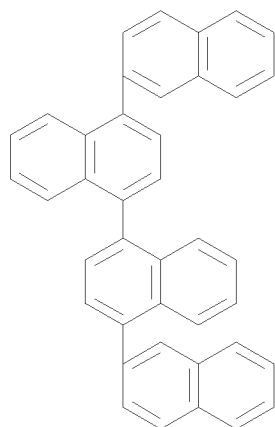
1 123324-71-0/BI
(123324-71-0/RN)
1 32316-92-0/BI
(32316-92-0/RN)
1 49610-35-7/BI
(49610-35-7/RN)
1 604-53-5/BI
(604-53-5/RN)
1 676553-38-1/BI
(676553-38-1/RN)
1 76-86-8/BI
(76-86-8/RN)
1 7726-95-6/BI
(7726-95-6/RN)
1 861909-11-7/BI
(861909-11-7/RN)
1 861909-12-8/BI
(861909-12-8/RN)

L2 9 (123324-71-0/BI OR 32316-92-0/BI OR 49610-35-7/BI OR 604-53-5/BI
OR 676553-38-1/BI OR 76-86-8/BI OR 7726-95-6/BI OR 861909-11-7/
BI OR 861909-12-8/BI)

=> d ide 1-

YOU HAVE REQUESTED DATA FROM 9 ANSWERS - CONTINUE? Y/(N):y

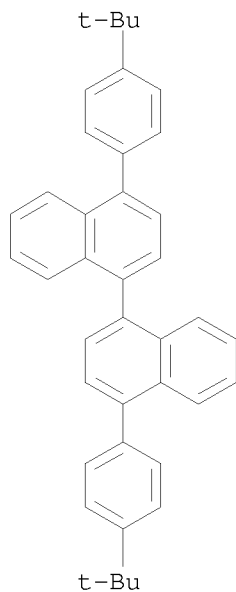
L2 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 861909-12-8 REGISTRY
ED Entered STN: 28 Aug 2005
CN 2,1':4',1'':4'',2'''-Quaternaphthalene (CA INDEX NAME)
MF C40 H26
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

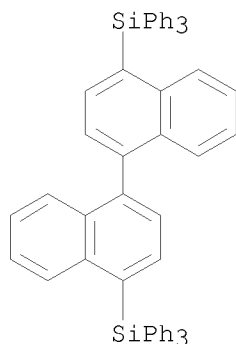
L2 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 861909-11-7 REGISTRY
 ED Entered STN: 28 Aug 2005
 CN 1,1'-Binaphthalene, 4,4'-bis[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)
 MF C40 H38
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

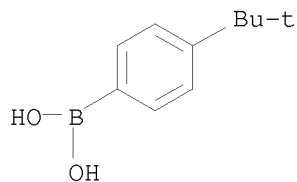
L2 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 676553-38-1 REGISTRY
 ED Entered STN: 23 Apr 2004
 CN 1,1'-Binaphthalene, 4,4'-bis(triphenylsilyl)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Silane, [1,1'-binaphthalene]-4,4'-diylbis(triphenyl- (9CI)
 MF C56 H42 Si2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 123324-71-0 REGISTRY
ED Entered STN: 20 Oct 1989
CN Boronic acid, B-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Boronic acid, [4-(1,1-dimethylethyl)phenyl]- (9CI)
OTHER NAMES:
CN (p-tert-Butylphenyl)boronic acid
CN 4-t-Butylbenzeneboronic acid
CN 4-t-Butylphenylboronic acid
CN 4-tert-Butylbenzeneboronic acid
CN 4-tert-Butylphenylboronic acid
CN p-tert-Butylbenzeneboronic acid
CN [4-(1,1-Dimethylethyl)phenyl]boronic acid
MF C10 H15 B O2
SR CA
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
CHEMLIST, REAXYSFILE*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

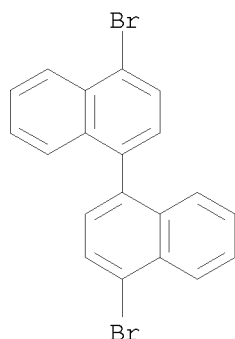


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

715 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
719 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 49610-35-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,1'-Binaphthalene, 4,4'-dibromo- (CA INDEX NAME)
OTHER NAMES:

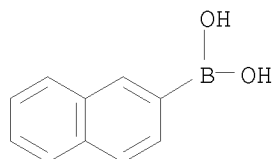
CN 4,4'-Dibromo-1,1'-binaphthalene
 CN 4,4'-Dibromo-1,1'-binaphthyl
 MF C20 H12 Br2
 CI COM
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, REAXYSFILE*, USPAT2,
 USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

27 REFERENCES IN FILE CA (1907 TO DATE)
 28 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 32316-92-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Boronic acid, B-2-naphthalenyl- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Naphthaleneboronic acid (6CI, 7CI, 8CI)
 CN Boronic acid, 2-naphthalenyl- (9CI)
 OTHER NAMES:
 CN (2-Naphthalenyl)boronic acid
 CN 2-Naphthylboric acid
 CN 2-Naphthylboronic acid
 MF C10 H9 B O2
 LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
 REAXYSFILE*, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1189 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1197 REFERENCES IN FILE CAPLUS (1907 TO DATE)

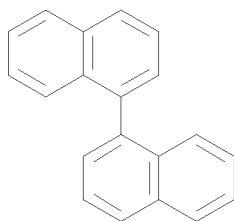
L2 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 7726-95-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Bromine (CA INDEX NAME)
OTHER NAMES:
CN Bromine element
CN Bromine molecule (Br2)
CN Diatomic bromine
CN Dibromine
DR 23724-81-4
MF Br2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS,
CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSNB, DDFU,
DETERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA,
RTECS*, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Br—Br

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

38210 REFERENCES IN FILE CA (1907 TO DATE)
1261 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
38416 REFERENCES IN FILE CAPLUS (1907 TO DATE)

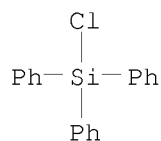
L2 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 604-53-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,1'-Binaphthalene (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,1'-Binaphthyl (8CI)
OTHER NAMES:
CN (±)-1,1'-Binaphthyl
CN (±)Binaphthyl
CN α,α'-Binaphthyl
CN NSC 15230
CN NSC 662279
CN Racemic 1,1'-binaphthyl
DR 32507-32-7
MF C20 H14
CI COM
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CIN, DETERM*, IFICDB, IFIPAT, IFIUDB, MEDLINE,
MSDS-OHS, REAXYSFILE*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

601 REFERENCES IN FILE CA (1907 TO DATE)
 28 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 603 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 76-86-8 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzene, 1,1',1''-(chlorosilylidyne)tris- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Silane, chlorotriphenyl- (6CI, 8CI, 9CI)
 OTHER NAMES:
 CN Chlorotriphenylsilane
 CN NSC 102804
 CN Triphenylchlorosilane
 CN Triphenylsilicon chloride
 CN Triphenylsilyl chloride
 CN TSL 8061
 DR 953074-25-4, 155684-37-0
 MF C18 H15 Cl Si
 CI COM
 LC STN Files: AGRICOLA, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, DETHERM*, GMELIN*, IFICDB, IFIPAT, IFIUDB,
 MEDLINE, REAXYSFILE*, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL,
 USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1032 REFERENCES IN FILE CA (1907 TO DATE)
 54 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1034 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE TOTAL
 ENTRY SESSION

FULL ESTIMATED COST	19.86	26.67
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.87

FILE 'REGISTRY' ENTERED AT 12:28:15 ON 27 APR 2011
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2011 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 25 APR 2011 HIGHEST RN 1285819-54-6
 DICTIONARY FILE UPDATES: 25 APR 2011 HIGHEST RN 1285819-54-6

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

TSCA INFORMATION NOW CURRENT THROUGH January 14, 2011.

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L3 1 861909-12-8/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.61	27.28
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.87

FILE 'CAPLUS' ENTERED AT 12:28:18 ON 27 APR 2011
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2011 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 27 Apr 2011 VOL 154 ISS 18
FILE LAST UPDATED: 26 Apr 2011 (20110426/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2011

CAplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L3

L4 4 L3

=> DIS L4 1- IBIB IABS

YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 12.80 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:21891 CAPLUS
DOCUMENT NUMBER: 150:109325
TITLE: Organic electroluminescence device and phosphorescent material host for organic electroluminescence device
INVENTOR(S): Nishimura, Kazuki; Iwakuma, Toshihiro; Fukuoka, Kenichi; Hosokawa, Chishio; Kawamura, Masahiro; Ito, Mitsunori; Takashima, Yoriyuki; Ogiwara, Toshinari
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 84pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 14
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090009065	A1	20090108	US 2008-108066	20080423
US 20090008605	A1	20090108	US 2008-102457	20080414

US 20090008606	A1	20090108	US 2008-102484	20080414
US 20090008607	A1	20090108	US 2008-102562	20080414
WO 2009008198	A1	20090115	WO 2008-JP57251	20080414
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
WO 2009008199	A1	20090115	WO 2008-JP57253	20080414
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
WO 2009008200	A1	20090115	WO 2008-JP57255	20080414
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
WO 2009008201	A1	20090115	WO 2008-JP57258	20080414
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
US 20090039317	A1	20090212	US 2008-102401	20080414
KR 2010040886	A	20100421	KR 2010-7001873	20080414
KR 2010042273	A	20100423	KR 2010-7002542	20080414
KR 2010044200	A	20100429	KR 2010-7002543	20080414
US 20090009066	A1	20090108	US 2008-122308	20080516
US 20090009067	A1	20090108	US 2008-122316	20080516
EP 2166585	A1	20100324	EP 2008-752905	20080516

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
 IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI,
 SK, TR, AL, BA, MK, RS
 EP 2166586 A1 20100324 EP 2008-752906 20080516
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
 IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI,
 SK, TR, AL, BA, MK, RS
 KR 2010039369 A 20100415 KR 2010-7002121 20080516
 KR 2010040901 A 20100421 KR 2010-7002343 20080516
 CN 101960635 A 20110126 CN 2008-80023731 20080516
 US 20090045730 A1 20090219 US 2008-167725 20080703
 US 20090045731 A1 20090219 US 2008-167737 20080703
 WO 2009008341 A1 20090115 WO 2008-JP62128 20080704
 W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,
 FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,
 KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
 ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,
 PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
 IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
 TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 WO 2009008355 A1 20090115 WO 2008-JP62143 20080704
 W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,
 FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,
 KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
 ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,
 PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
 IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
 TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 KR 2010029845 A 20100317 KR 2010-7002544 20080704
 KR 2010042271 A 20100423 KR 2010-7002481 20080704
 IN 2009KN04548 A 20100423 IN 2009-KN4548 20091230
 US 20100327230 A1 20101230 US 2010-667777 20100105
 CN 101730948 A 20100609 CN 2008-80023729 20100107
 US 20100331585 A1 20101230 US 2010-668105 20100107
 PRIORITY APPLN. INFO.: JP 2007-179109 A 20070707
 JP 2007-179120 A 20070707
 JP 2007-179121 A 20070707
 WO 2008-JP57251 W 20080414
 WO 2008-JP57253 W 20080414
 WO 2008-JP57258 W 20080414
 US 2008-108066 A2 20080423
 WO 2008-JP57837 A 20080423
 US 2008-53886P P 20080516
 US 2008-53908P P 20080516
 WO 2008-JP59076 W 20080516
 WO 2008-JP59077 W 20080516
 WO 2008-JP62128 W 20080704
 WO 2008-JP62143 W 20080704

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): CASREACT 150:109325; MARPAT 150:109325
 ABSTRACT:

An organic electroluminescence device is described comprising a cathode; an anode; and a single-layered or multilayered organic thin-film layer provided between the cathode and the anode is described where the organic thin-film layer includes at least one emitting layer, and the at least one emitting layer includes at least one phosphorescent material and a host material represented by Ra-Ar1-Ar2-Rb where Ra and Rb each represent a substituted or non-substituted benzene ring or a substituted or non-substituted condensed aromatic hydrocarbon ring selected from a group consisting of a naphthalene ring, a chrysene ring, a fluoranthene ring, a triphenylene ring, a phenanthrene ring, a benzophenanthrene ring, a dibenzophenanthrene ring, a benzotriphenylene ring, a benzochrysene ring and a picene ring; and Ar1 and Ar2 each represent a substituted or non-substituted benzene ring or a substituted or non-substituted condensed aromatic hydrocarbon ring selected from a group consisting of a naphthalene ring, a chrysene ring, a fluoranthene ring, a triphenylene ring, a benzophenanthrene ring, a dibenzophenanthrene ring, a benzotriphenylene ring, a benzochrysene ring and a picene ring.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:20759 CAPLUS

DOCUMENT NUMBER: 150:109324

TITLE: Organic electroluminescence device and phosphorescent material host for organic electroluminescence device

INVENTOR(S): Nishimura, Kazuki; Iwakuma, Toshihiro; Fukuoka, Kenichi; Hosokawa, Chishio; Kawamura, Masahiro; Ito, Mitsunori; Takashima, Yoriyuki; Ogiwara, Toshinari

PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 106pp., Cont.-in-part of U.S. Ser. No. 108,066.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 14

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090009067	A1	20090108	US 2008-122316	20080516
US 20090008605	A1	20090108	US 2008-102457	20080414
US 20090008606	A1	20090108	US 2008-102484	20080414
US 20090008607	A1	20090108	US 2008-102562	20080414
WO 2009008198	A1	20090115	WO 2008-JP57251	20080414
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
WO 2009008199	A1	20090115	WO 2008-JP57253	20080414
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,			

	ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW		
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
WO 2009008200	A1	20090115	WO 2008-JP57255 20080414
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW		
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
WO 2009008201	A1	20090115	WO 2008-JP57258 20080414
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW		
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
US 20090039317	A1	20090212	US 2008-102401 20080414
KR 2010040886	A	20100421	KR 2010-7001873 20080414
KR 2010042273	A	20100423	KR 2010-7002542 20080414
KR 2010044200	A	20100429	KR 2010-7002543 20080414
US 20090009065	A1	20090108	US 2008-108066 20080423
EP 2166585	A1	20100324	EP 2008-752905 20080516
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS		
EP 2166586	A1	20100324	EP 2008-752906 20080516
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS		
KR 2010039369	A	20100415	KR 2010-7002121 20080516
KR 2010040901	A	20100421	KR 2010-7002343 20080516
CN 101960635	A	20110126	CN 2008-80023731 20080516
WO 2009008341	A1	20090115	WO 2008-JP62128 20080704
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW		
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,		

	TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,	
	AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
WO 2009008355	A1	20090115 WO 2008-JP62143 20080704
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,	
	CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,	
	FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,	
	KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,	
	ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,	
	PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,	
	TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW	
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,	
	IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,	
	TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,	
	TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,	
	AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
KR 2010029845	A	20100317 KR 2010-7002544 20080704
KR 2010042271	A	20100423 KR 2010-7002481 20080704
IN 2009KN04548	A	20100423 IN 2009-KN4548 20091230
US 20100327230	A1	20101230 US 2010-667777 20100105
CN 101730948	A	20100609 CN 2008-80023729 20100107
US 20100331585	A1	20101230 US 2010-668105 20100107
PRIORITY APPLN. INFO.:		JP 2007-179109 A 20070707
		JP 2007-179120 A 20070707
		JP 2007-179121 A 20070707
		US 2008-108066 A2 20080423
		WO 2008-JP57251 W 20080414
		WO 2008-JP57253 W 20080414
		WO 2008-JP57258 W 20080414
		WO 2008-JP57837 A 20080423
		WO 2008-JP59076 W 20080516
		WO 2008-JP59077 W 20080516
		WO 2008-JP62128 W 20080704
		WO 2008-JP62143 W 20080704

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 150:109324; MARPAT 150:109324

ABSTRACT:

An organic electroluminescence device is described comprising a cathode; an anode; and a single-layered or multilayered organic thin-film layer provided between the cathode and the anode, where the organic thin-film layer includes at least one emitting layer, and the at least one emitting layer contains: at least one phosphorescent material; and a host material represented by Ra-Ar1-Ar2-Rb where Ar1, Ar2, Ra and Rb each represent a substituted or unsubstituted benzene ring or a substituted or unsubstituted condensed aromatic hydrocarbon group selected from a group consisting of a naphthalene ring, a chrysene ring, a fluoranthene ring, a triphenylene ring, a phenanthrene ring, a benzophenanthrene ring, a dibenzophenanthrene ring, a benzotriphenylene ring, a benzochrysene ring, a picene ring and a benzo[b]fluoranthene ring.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:403965 CAPLUS

DOCUMENT NUMBER: 144:422277

TITLE: Oligonaphthalene derivatives, and light-emitting
element and light-emitting device using
oligonaphthalene derivatives

INVENTOR(S): Nakashima, Harue; Kawakami, Sachiko; Nomura, Ryoji

PATENT ASSIGNEE(S): Semiconductor Energy Laboratory Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 64 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1652902	A1	20060503	EP 2005-23304	20051025
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
US 20060093857	A1	20060504	US 2005-249362	20051014
US 7666524	B2	20100223		
CN 1769251	A	20060510	CN 2005-10128374	20051028
CN 1769251	B	20110302		
JP 2006151966	A	20060615	JP 2005-315650	20051031

PRIORITY APPLN. INFO.: JP 2004-315669 A 20041029

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 144:422277

ABSTRACT:

The present invention provides a novel material capable of realizing excellent color purity of blue, a light-emitting element and a light-emitting device using the novel material. The present invention provides an oligonaphthalene derivative Ar1(Ar2)nAr3 [n = 1,2; Ar1,3 = R-substituted naphthyl; Ar2 = R-substituted naphthalenediyl; R = H, linear or branched C<6 alkyl, alicyclic alkyl (un)substituted aromatic, heteroarom., alkoxy amino, cyano silyl, ester carbonyl of halo]. The oligonaphthalene derivs. of the present invention have an extremely large band gap, can emit light with extremely short wavelength, and can emit blue light with favorable color purity. A light-emitting element that can exhibit excellent color purity of blue can be obtained by applying this material to the light-emitting element or a light-emitting device; therefore the light-emitting element having superior color reproducibility can be provided.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:735143 CAPLUS

DOCUMENT NUMBER: 143:202688

TITLE: Novel blue emitters for use in organic electroluminescence devices

INVENTOR(S): Coggan, Jennifer A.; Hu, Nan-Xing; Aziz, Hany

PATENT ASSIGNEE(S): Xerox Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 21 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

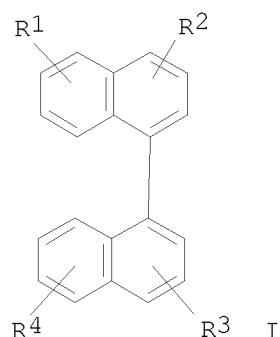
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050175857	A1	20050811	US 2004-774577	20040209
JP 2005222948	A	20050818	JP 2005-28449	20050204
JP 4395084	B2	20100106		
EP 1580250	A2	20050928	EP 2005-250649	20050204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,				

BA, HR, IS, YU
 JP 2010021561 A 20100128 JP 2009-206785 20090908
 PRIORITY APPLN. INFO.: US 2004-774577 A 20040209
 JP 2005-28449 A3 20050204
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 143:202688
 GRAPHIC IMAGE:



ABSTRACT:

The invention refers to an electroluminescent (EL) is provided comprising an anode, an organic electroluminescent element, and a cathode wherein the electroluminescent element contains, for example, a fluorescent 1,1'-binaphthyl derivative component I [R1-4 = H, or C1-25 alkyl, C3-15 alicyclic alkyl, (un)C 6-30 substituted aryl, C atoms from 4 to 24 necessary to complete a fused aromatic ring of naphthalene, anthracene, perylene and the like, C3-15 alicyclic alkyl, Si which may be substituted with a tri-Me, diphenylmethyl, tri-Ph group and the like, C5-24 (un)substituted heteroaryl, C atoms necessary to complete a fused heteroarom. ring of furyl, thienyl, pyridyl, quinolinyl and other heterocyclic systems, C1-25 alkoxy, amino, alkyl amino or aryl amino, halo, cyano, and the like].

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD
 (11 CITINGS)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	14.88	42.16
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.48	-4.35

FILE 'REGISTRY' ENTERED AT 12:30:40 ON 27 APR 2011
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2011 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 25 APR 2011 HIGHEST RN 1285819-54-6
 DICTIONARY FILE UPDATES: 25 APR 2011 HIGHEST RN 1285819-54-6

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

TSCA INFORMATION NOW CURRENT THROUGH January 14, 2011.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 3 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L5 1 676553-38-1/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.61	42.77
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-4.35

FILE 'CAPLUS' ENTERED AT 12:30:44 ON 27 APR 2011
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2011 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 27 Apr 2011 VOL 154 ISS 18
FILE LAST UPDATED: 26 Apr 2011 (20110426/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2011

CAPLUS now includes complete International Patent Classification (IPC)
reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L5

L6 3 L5

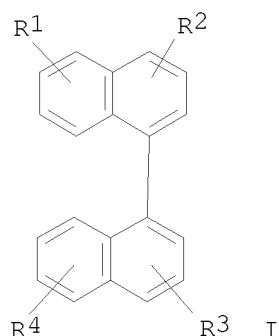
=> DIS L6 1 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 3.20 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:735143 CAPLUS
DOCUMENT NUMBER: 143:202688
TITLE: Novel blue emitters for use in organic
electroluminescence devices
INVENTOR(S): Coggan, Jennifer A.; Hu, Nan-Xing; Aziz, Hany
PATENT ASSIGNEE(S): Xerox Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050175857	A1	20050811	US 2004-774577	20040209
JP 2005222948	A	20050818	JP 2005-28449	20050204
JP 4395084	B2	20100106		
EP 1580250	A2	20050928	EP 2005-250649	20050204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
JP 2010021561	A	20100128	JP 2009-206785	20090908
PRIORITY APPLN. INFO.:			US 2004-774577	A 20040209
			JP 2005-28449	A3 20050204

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:202688
GRAPHIC IMAGE:



ABSTRACT:

The invention refers to an electroluminescent (EL) is provided comprising an anode, an organic electroluminescent element, and a cathode wherein the electroluminescent element contains, for example, a fluorescent 1,1'-binaphthyl derivative component I [R1-4 = H, or C1-25 alkyl, C3-15 alicyclic alkyl, (un)C 6-30 substituted aryl, C atoms from 4 to 24 necessary to complete a fused aromatic ring of naphthalene, anthracene, perylene and the like, C3-15 alicyclic alkyl, Si which may be substituted with a tri-Me, diphenylmethyl, tri-Ph group and the like, C5-24 (un)substituted heteroaryl, C atoms necessary to complete a fused heteroarom. ring of furyl, thienyl, pyridyl, quinolinyl and other heterocyclic systems, C1-25 alkoxy, amino, alkyl amino or aryl amino, halo, cyano, and the like].

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

=> DIS L6 2 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 3.20 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:739385 CAPLUS

DOCUMENT NUMBER: 141:268179

TITLE: Long-life white-emitting organic electroluminescent devices, displays, illumination apparatus, and electric appliances therewith

INVENTOR(S): Fukuda, Mitsuhiro; Genda, Kazuo

PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 577 pp.

CODEN: JKXXAF

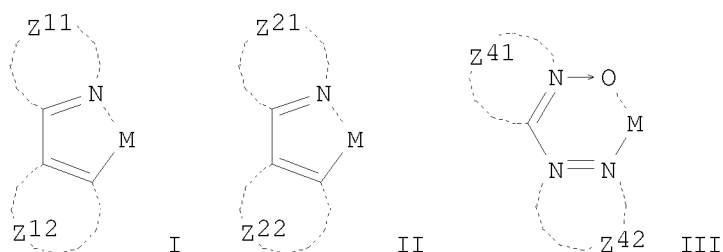
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2004253298	A	20040909	JP 2003-43860	20030221
JP 4590825	B2	20101201		
JP 2009055053	A	20090312	JP 2008-262504	20081009
PRIORITY APPLN. INFO.:			JP 2003-43860	A3 20030221
OTHER SOURCE(S):	MARPAT	141:268179		
GRAPHIC IMAGE:				



ABSTRACT:

The devices have, in their constituent layers (e.g., emitting layers, hole- or electron-transporting layers), (i) compds. represented by $X1R1C:CR2X2$ [$X1, X2$ = aryl, heterocycle; $R1, R2$ = aryl, heterocyclic hydrocarbyl, cycloalkoxy ($R1 = R2$ = aryl)], $R11R12R13R14R15P$ ($R11-R15$ = monovalent substituent), $Ar2Ar1C6H4(m-Ar1Ar2)$ [$Ar1$ = bivalent aromatic hydrocarbylene; $Ar2$ = (substituted) Ph; H atom on the benzene ring may be substituted with (cyclo)alkyl, alkoxy, or halo], $Z(ArQ)n$ [Q = (substituted) o-(2-pyridyl)phenyl; Z = n-valent bridging group, single bond; Ar = bivalent arylene; $n = 2-8$], etc., (ii) fluorescent compds. with mol. weight 500-2000 and atomic ratio $F/(F + H)$ 0-0.9 and having fluorescent peak at ≤ 415 nm, (iii) polysilanes $(R21R22Si)_n$ [$R21, R22$ = alkyl(oxy), aromatic group, aryloxy; $n1 \geq 3$] or $[R31(Ar31NR32R33)Si]_n$ [$R31$ = alkyl(oxy), aromatic group, aryloxy; $R32, R33$ = alkyl, aromatic group; $Ar31$ = arylene; $n2 \geq 3$], and/or (iv) fluorescent compds. satisfying atomic ratio N/C 0-0.05. The devices, having phosphorescent dopants I ($Z11$ = aromatic azacycle; $Z12$ = nonarom. ring, 5-membered aromatic ring, azulene; M = metal), II ($Z21, Z22$ = aromatic azacycle; M = metal), or III ($Z41$ = azacycle; $Z42$ = ring; M = metal) in emitting layers, are also claimed. The devices exhibit high luminescent efficiency and substantially white emission, and are suited for light source uses, especially of LCD.

OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD
(9 CITINGS)

=> DIS L6 3 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 3.20 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:272156 CAPLUS

DOCUMENT NUMBER: 140:312148

TITLE: Organic electroluminescent device and
electroluminescent display

INVENTOR(S): Kita, Hiroshi; Suzurizato, Yoshiyuki; Yamada,
Taketoshi; Karatsu, Takashi; Kitamura, Akihide

PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2004103463	A	20040402	JP 2002-265416	20020911

PRIORITY APPLN. INFO.: JP 2002-265416 20020911
OTHER SOURCE(S): MARPAT 140:312148

ABSTRACT:

The title device contains specific triphenylarylsilane in an electroluminescent layer. The silane compound is used a host compound or an electron transporting compound. The title device shows improved electroluminescence and high durability.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

=> d his

(FILE 'HOME' ENTERED AT 12:26:00 ON 27 APR 2011)

FILE 'CAPLUS' ENTERED AT 12:26:43 ON 27 APR 2011
E US20050175857/PN

L1 1 S E3
DELETE SELECT Y
SEL L1 RN 1-

FILE 'REGISTRY' ENTERED AT 12:27:33 ON 27 APR 2011
9 S E1-E9

FILE 'REGISTRY' ENTERED AT 12:28:15 ON 27 APR 2011
SET TERMSET E#
DEL SEL Y
SEL L2 1 RN
L3 1 S E1/RN
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 12:28:18 ON 27 APR 2011
4 S L3

FILE 'REGISTRY' ENTERED AT 12:30:40 ON 27 APR 2011
SET TERMSET E#
DEL SEL Y
SEL L2 3 RN
L5 1 S E1/RN
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 12:30:44 ON 27 APR 2011
3 S L5

L6